

POLYTRIMETHYLENE TEREPHTHALATE FIBER AND PROCESS FOR PRODUCING THE SAME

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Inventor(s): KATO JINICHIRO (JP); FUJIMOTO KATSUHIRO (JP)

Applicant(s): ASAHI CHEMICAL IND (JP)

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Abstract

A polytrimethylene terephthalate fiber, a method for producing the same, a cheese-shaped package formed thereof, a false-twist textured yarn using the fiber and a fabric using the false-twist textured yarn are provided. The fiber is composed of 90 mol% or more of trimethylene terephthalate repeating units having a density in a range from 1.320 to 1.340 g/cm³, a birefringence in a range from 0.030 to 0.070, a peak value of thermal stress in a range from 0.01 to 0.12 cN/dtex, a boiling water shrinkage in a range from 3 to 40%, and an elongation at break in a range from 40 to 140%. The inventive polytrimethylene terephthalate fiber has both of proper crystallinity and orientation and is free from the package tightness due to yarn shrinkage and the bulge. The inventive fiber can be produced on an industrial scale.

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